DECLARATION FOR PATENT APPLICATION SOLE OR JOINT

As a below named inventor, I hereby declare that:

DIRECT TELEPHONE CALLS TO:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention titled:

Methods of Forming Titanium-Based and Zirconium-Based Mixed-Metal Materials; and	Sputtering	Targets
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the specification of wh	nich is attached herete	o unless the following box is o	checked.			
was filed on	as United States	Application Number or PCT	International Appl	lication Number	and was an	nended
on	(If Applicable)	ı .		-		
I HEREBY STATE TI INCLUDING THE CL	HAT I HAVE REVII LAIMS.	EWED AND UNDERSTAND	THE CONTENT:	S OF THE ABOVE-IDE	NTIFIED SPECIF	CATION
I ACKNOWLEDGE T APPLICATION IN AC	THE DUTY TO DISC CCORDANCE WITI	CLOSE INFORMATION THA H TITLE 37, CODE OF FEDI	AT IS MATERIAL ERAL REGULAT	. TO THE PATENTABI IONS, §1.56(a).	LITY OF THIS	
Thereby claim foreign listed below and have application on which p	also identified below	er Title 35, United States Cod any foreign application for pa	le, §119 of any foreatent or inventor's	eign application(s) for pa certificate having a filing	tent or inventor's date before that	certificate of the
Prior Foreign Applica	ation(s)					
Total					Priority C	laimed
(Number)		(Country)	(Day/Mo	onth/Year Filed)	Yes	No
!						
(Number)		(Country)	(Day/Mo	onth/Year Filed)	Yes	No
2 Table						
(Number)		(Country)	(Day/Mo	onth/Year Filed)	Yes	No
I hereby claim the bene	fit under Title 35, Ui	nited States Code, §120 of any LAIMS OF THIS APPLICAT	V United States app	olications listed below and	d, INSOFAR AS	ТНЕ
APPLICATION IN TH ACKNOWLEDGE TH REGULATIONS, §1.50	E MANNER PROVI E DUTY TO DISCL 6(a) WHICH OCCUI	IDED BY THE FIRST PARA OSE MATERIAL INFORMA RRED BETWEEN THE FILI E OF THIS APPLICATION:	GRAPH OF TITL TION AS DEFIN	E 35, UNITED STATES ED IN TITLE 37, CODE	CODE, §112, I	
(Application	serial Number)	(Filing Dat	te)	(STATUS: Patented	, Pending, Abandon	ed)
(Application	Serial Number)	(Filing Dat	e)	(STATUS: Patented,	Pending, Abandon	ed)
UEND CORP TOP STOR						
SEND CORRESPOND	ENCE TO:	Shannon Morris				
		Honeywell International Inc.	•	EL465	8521	67
		P.O. Box 2245			~ ~ ~ A	

101 Columbia Road, Morristown, New Jersey 07962

(724) 452-1523

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

FULL NAME OF SOLE OR FIRST IN	NVENTOR Stephen P. Turner	
INVENTOR'S SIGNATURE	// / // / / / / / / / / / / / / / / / 	Date infection
RESIDENCE Moon, PA	Styphen June	Date 10/13/00
CITIZENSHIP UK		
	Turnwood Lane	
1020	n, PA 15108	
FULL NAME OF SECOND JOINT IN	NVENTOR Joseph E. Green	
INVENTOR'S SIGNATURE	wich Elhans	Date 10-33-00
RESIDENCE Cranberry Towns		
CITIZENSHIP U.S.		
POST OFFICE ADDRESS 200 W	Vhispering Oaks Drive	
Cranb	perry Township, PA 16066	
FULL NAME OF THIRD JOINT INV	ENTOD A D. J. J. C.	
INVENTOR'S SIGNATURE	Rodney L Scagline	
7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100 7 100	Date 10/23/08
RESIDENCE Evans City, PA CITIZENSHIP U.S.		
	rosport Dood	
	rospect Road s City, PA 16033	
Evans	3 City, PA 16033	
FULL NAME OF FOURTH JOINT IN	IVENTOR Yun Xu	
INVENTOR'S SIGNATURE	Am XW	Date (0/23/00)
RESIDENCE Pittsburgh, PA	7 9 7 7	
CITIZENSHIP U.S.		
POST OFFICE ADDRESS 3679	Allendale Circle 443 Tubuco	D ²
; m:	1 DA 15204	Dr Y X
Pittsbu	urgh, PA 15204 Wexterd, PA	Dr YX
FULL NAME OF FIFTH JOINT INVE	urgh, PA 15204 Wexterd, PA	
FULL NAME OF FIFTH JOINT INVE	urgh, PA 15204 Wexterd, PA	Dr
FULL NAME OF FIFTH JOINT INVE INVENTOR'S SIGNATURE RESIDENCE	urgh, PA 15204 Wexterd, PA	
FULL NAME OF FIFTH JOINT INVEINVENTOR'S SIGNATURE RESIDENCE CITIZENSHIP	urgh, PA 15204 Wexterd, PA	
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DECLARATION FOR PATENT APPLICATION—SOLE OR JOINT (Continued)

Attorney's Docket No. H0001468: - Page 3

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected herewith (List name and registration number).

(LIST SENIOR PATENT COUNSEL AND ATTORNEY HANDLING CASE WITH PATENT OFFICE REGISTRATION NUMBERS.)

	Mary Ann Lemere	Shannon Morris	Curt Brueske
	Name	Name	Name
	32,160	42,909	33,839
	Registration Number	Registration Number	Registration Number
1	David P. Roberts	Randy A. Gregory	Deepak Malhotra
	Name	Name	Name
	23,032	30,386	33,560
	Registration Number	Registration Number	Registration Number
	Mark S. Matkin	James L. Price	George G. Grigel
	Name	Name	Name
	32,268	27,376	31,166
	Registration Number	Registration Number	Registration Number
	Mark Hendricksen	David G. Latwesen, Ph.D.	Frederick M. Fliegel
	Name	Name	Name
	32,356	38,533	36,138
	Registration Number	Registration Number	Registration Number
3	Keith D. Grzelak	James D. Shaurette	Bernard Berman
	Name	Name	Name
Hard trees but there were the state of the s	37,144	39,833	37,279
	Registration Number	Registration Number	Registration Number
tei tei	D. Brent Kenady	James E. Lake	
	Name	Name	
	40,045	44,854	
	Registration Number	Registration Number	Registration Number
	Name	Name	Name
	Registration Number	Registration Number	Registration Number
	Name	Name	Name
	Registration Number	Registration Number	Registration Number
	Name	Name	Name
	Registration Number	Registration Number	Registration Number

	DRM PTO-1595 Rev. 6-93) MB No. 0651-0011 (exp. 4/94) RECORDATION FOR PATENTS	Patent and Trademark Office
	To the Honorable Commissioner of Patents and Trademarks:	Please record the attached original documents or copy thereof.
7	. Name of conveying parties:	Name and address of receiving party(ies):
5	tephen P. Turner; Joseph E. Green	Name: Honeywell International Inc.
	odney L. Scagline; Yun Xu	Internal Address:
A	dditional name(s) & party(ies) attached?	
3	Nature of conveyance:]
	X Assignment Merger	Street Address: Law Dept. AB2
	Security Agreement Change of Name	B0x 2245, 101 Columbia Road
	Other	City: Morristown State: NJ Zip: 07962
	Execution Date: October 23, 2000	Additional name(s) & address(es) attached? Yes X No
4	Application number(s) or patent number(s):	
	If this document is being filed together with a new application, is:	the execution date of the application October 23, 2000 .
10/30/20	Patent Application No.(s) 00 DTESSEM1 00000050 09695814	B. Patent No.(s)
)4 FC 58	40.00 OP	
	Additional numbers attached?	Yes X No
5	Name and address of party to whom correspondence concerning document should be mailed:	Total number of applications and patents involved:
	Name: Shannon Morris	1
	Internal Address:	7. Total fee (37 CFR 3.41)\$ 40.00

Deposit account number: 23-0925

Box 2245, 101 Columbia Road

State: NJ Zip: 07962

Law Dept. AB2

DO NOT USE THIS SPACE

Statement and signature.

Morristown

Street Address:

City:

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

David G. Latwesen, Ph.D Name of Person Signing

Signature

■ Authorized to be charged to deposit account

Total number of pages including cover sheet, attachments, and document:

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks, Box Assignments

Washington, D.C. 20231

ASSIGNMENT

Assignment before issue of Letters Patent

HW File

H0001468

WHEREAS, Stephen P. Turner; Joseph E. Green; Rodney L. Scagline; and Yun Xu

(hereinafter "Assignor") have invented certain new and useful improvements in

Methods of Forming Titanium-Based and Zirconium-Based Mixed-Metal Materials; and Sputtering Targets

(hereinafter "invention") for which Assignor is making or has made application for LETTERS PATENT OF

THE UNITED STATES, which application has been duly executed by Assignor on

the day(s) and date(s) of these presents.

AND WHEREAS, Honeywell International Inc., a corporation organized and existing under the laws of the State of Delaware, U.S.A., having a place of business at 101 Columbia Road, Morris Township, Morris County, New Jersey, U.S.A., hereinafter called the Assignee, is desirous of acquiring the entire right, title and interest in and to said invention within the United States of America and its territorial possessions and all foreign countries and any United States or foreign LETTERS PATENT that may be granted therefor.

NOW, THIS INDENTURE WITNESSETH, that for good and valuable considerations, the receipt whereof is hereby acknowledged, Assignor has assigned, sold and transferred, and does hereby assign, sell and transfer to the said Assignee the entire right, title and interest in and to the said invention, within the United States of America and its territorial possessions and all foreign countries and in and to any LETTERS PATENT of the United States and foreign countries, including utility models, inventor's certificates and like government grants, and all divisions, reissues, continuations and extensions thereof that may be granted therefor, and the right to apply for LETTERS PATENT in foreign countries with full benefit of such priorities as may now or hereafter be granted to Assignor by local laws or by treaty, including any international convention, for the protection of industrial property, together with the right to extend the protection of said U.S. LETTERS PATENT to the various territorial possessions now owned or which may be hereafter acquired by the United States of America, all said rights to be held and enjoyed by the Assignee for its own use and benefit, and for the use and benefit of its successors or assigns, to the full end of the term for which said LETTERS PATENT may be granted, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made. And Assignor does hereby request and authorize the Commissioner of Patents and Trademarks, U.S.A., to issue said U.S. LETTERS PATENT, when granted, in accordance with this assignment.

Assignor further covenants and agrees with the Assignee that Assignor has a full and unencumbered title to the invention hereby assigned, which title Assignor warrants unto the Assignee, and Assignor further agrees that Assignor will, without demanding any further consideration therefor, at the request but at the expense of the Assignee, do all lawful and just acts, including the execution and acknowledgment of instruments, that may be or become necessary for obtaining, sustaining, extending, reissuing or reexamining United States and foreign LETTERS PATENT or the like for the said invention, and for maintaining and perfecting the Assignee's right to said invention and LETTERS PATENT particularly in cases of interference, conflict, opposition and litigation.

IN TESTIMONY WHEREOF, I have hereu	into set my hand this Z	3 day of	October	. , 2000
Stephen P. Turner	Taplan Jum	<u> </u>		
IN TESTIMONY WHEREOF, I have heret	unto set my hand this 2	3 day of (October	, 2000
Joseph E. Green	Joseph .	free.		
IN TESTIMONY WHEREOF, I have here	unto set my hand this 23	day of	October	, 2000
Rodney L. Scagline	1/45	1/6-		

C-182 (6/87)

s:\HO58\044\assign.doc

	ASSIGNMENT		
IN TESTIMONY WHEREOF, I have hereu	nto set my hand this 💪 3		t before issue of Letters Patent . , 2000
Yun Xu	VmXu		
IN TESTIMONY WHEREOF, I have hereu	nto set my hand this	day of	, 2000
[inventors name here]			
IN TESTIMONY WHEREOF, I have hereur	nto set my hand this	day of	, 2000
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[inventors name here]			
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IN TESTIMONY WHEREOF, I have hereur [inventors name here]	nto set my hand this	day of	, 2000
[name note]			

STATE OF	PA)		
COUNTY OF	BEAUER) ss.:)		/
	On this 23rd da	yof October,	, 2000	before me personally appeared
Stephen P. Turner				
to me known and k	nown to me to be the indiv	idual described in and w	ho execu	ited the foregoing instrument,
and he / she / they	acknowledged to me th <u>at h</u>	e / she/ they executed the	e same.	
	≺aren Sil	vester, Notary Public wp., Beaver County		
	My Commission	on Expires Sept. 30, 2002		
[SEAL]	, genthat B anns n	Ivania Association of Notarie s		
(1/01	00.	-1
		Haren x	silve	Notary Public
		My commission ex	pires:	9-30-02
STATE OF	PA)		
) ss.:		
COUNTY OF _	BEAVER)		
	On this 231d da	y of October,	, 2000	before me personally appeared
Joseph E. Green				
				ited the foregoing instrument,
and he / she / they	acknowledged to me that h	e / she/ they executed the	e same.	
	Karen	Notarial Sea Silvester, Notary Hublic		
	Maric My Commi	n Twp., Beaver County ssion Expires Sept. 30 ⊇00	2	
[SEAL]	Member, Per	nsylvania Association of Notarie		
		Kover	Sil	vester 9-30-02 Notary Public
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=		My commission ex	pires:	7 00 02
STATE OF	PA)		
COUNTY OF	BEAVER) ss.:)		
_	On this 2312d da	y of <u>October</u> ,	2000	before me personally appeared
Rodney L. Scagline		, or <u>becober</u> ,	, 2000	versite me personally appeared
to me known and k	nown to me to be the indiv	idual described in and w	ho execu	ited the foregoing instrument,
	acknowledged to me that h			,
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	[Ma	en Silvester, Notary Public non Twp., Beaver County		
(00)		mission Expires Sept. 30, 20 ennsylvania Association of Note	I	
[SEAL]	(*)G(11.0 G (1, F			
		_ Yaren	Sel	vester
		My commission ex	pires:	Wester Notary Public 9-30-02

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COUNTY OF BEAVER) SS.:	
COUNTY OF	
On this 33rd day of October, 2000 before me personally:	appeared
Yun Xu	
to me known and known to me to be the individual described in and who executed the foregoing instrument,	
and he / she / they acknowledged to me that he / she/ they executed the same.	
Notarial Seal Karen Silvester, Notary Public Marion Twp., Beaver County My Commission Expires Sept. 30, 2002 [SEAL] Member, Pennsylvania Association of Notaries	
Karen Selvester	
<u>Haren Schrester</u> My commission expires: 9-30-02	Notary Public
STATE OF)	
) ss.:	
COUNTY OF)	
On this day of, 2000 before me personally [inventor name here]	appeared
and he / she / they acknowledged to me that he / she/ they executed the same.	
[SEAL]	
	Notary Public
[SEAL] My commission expires:	Notary Public
My commission expires: STATE OF	Notary Public
My commission expires: STATE OF)) ss.:)	Notary Public
My commission expires: STATE OF) COUNTY OF)	
My commission expires: STATE OF)) ss.:)	
My commission expires: STATE OF) COUNTY OF) ss.: On this day of , 2000 before me personally	
STATE OF	
STATE OF	
STATE OF	

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Assignment

TO HONEYWELL INTERNATIONAL INC.

INVENTION:

Methods of Forming Titanium-Based and Zirconium-Based Mixed-Metal Materials; and Sputtering Targets

HW File: H0001468

Honeywell International Inc.